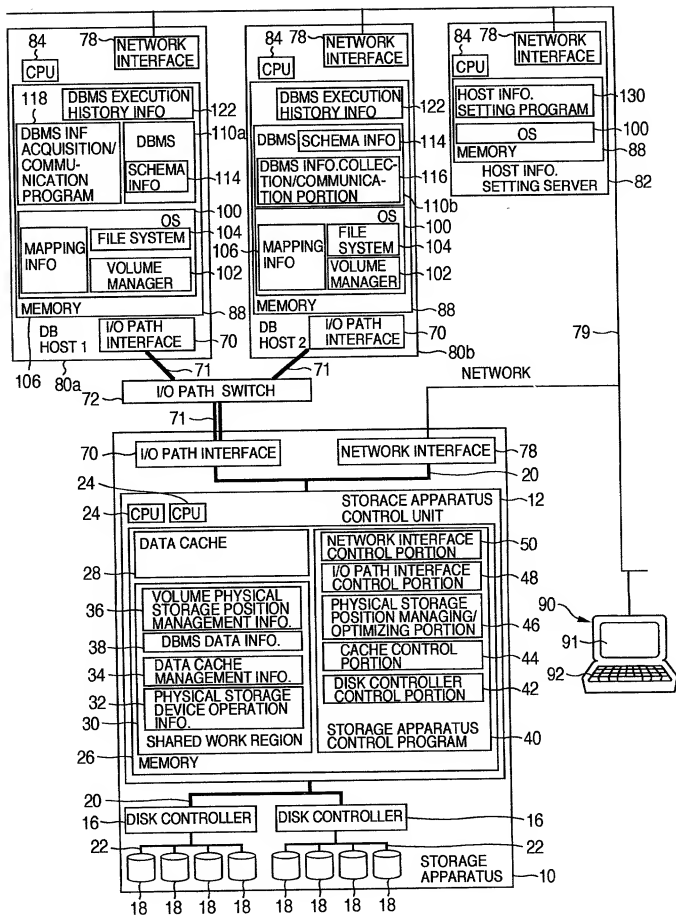


FIG.1



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FIG.2

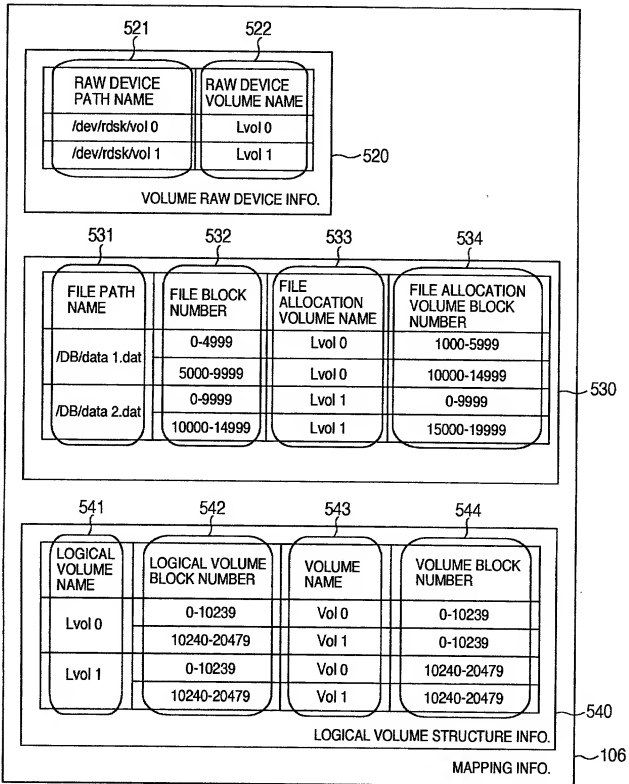


FIG.3

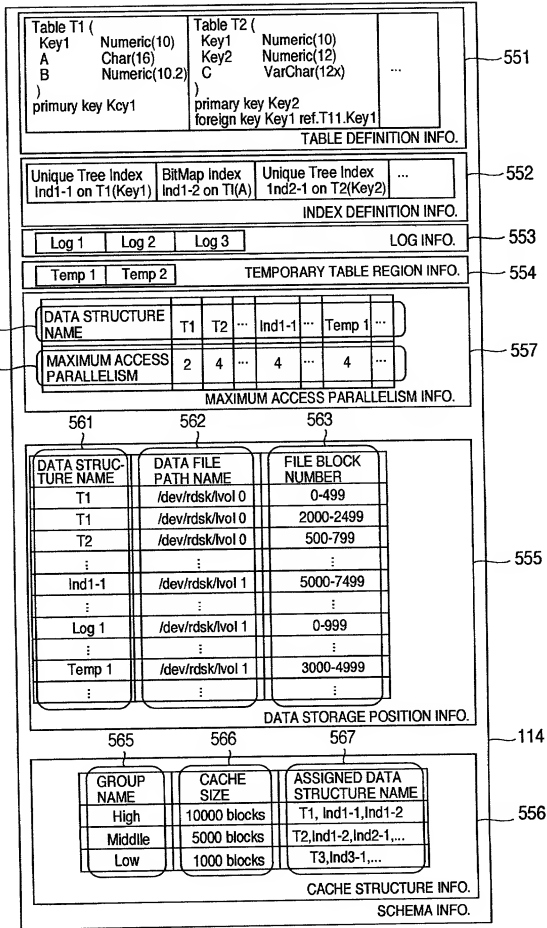


FIG. 4

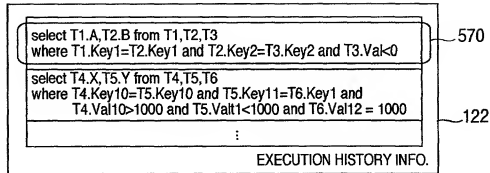


FIG. 5

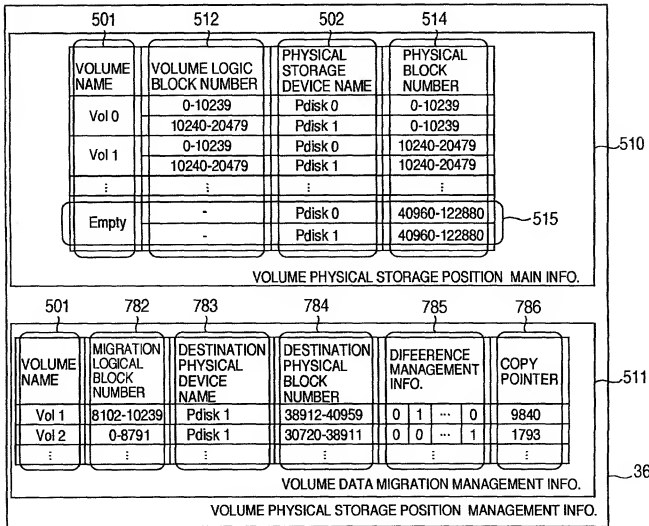


FIG.6

VOLUME NAME		Vol 0	Vol 0	Vol 1	...	501
PHYSICAL STORAGE DEVICE NAME		Pdisk 0	Pdisk 1	Pdisk 0	...	502
CUMULATIVE OPERATION TIME		23917390	38902849	8012891	...	503
PREVIOUS CUMULATIVE OPERATION TIME		22787638	38783484	7592039	...	593
OPERATION RATE	2000/4/1 12:00~ 2000/4/1 12:15	20%	12%	4%	...	594
	2000/4/1 12:15~ 2000/4/1 12:30	15%	10%	7%	...	
	2000/4/1 12:30~ 2000/4/1 12:45	16%	9%	5%	...	
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	
PREVIOUS CUMULATIVE OPERATION TIME ACQUIRING TIME		PHYSICAL STORAGE DEVICE OPERATION INFO.				595 32

FIG.7

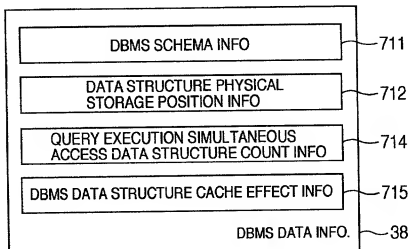


FIG.8

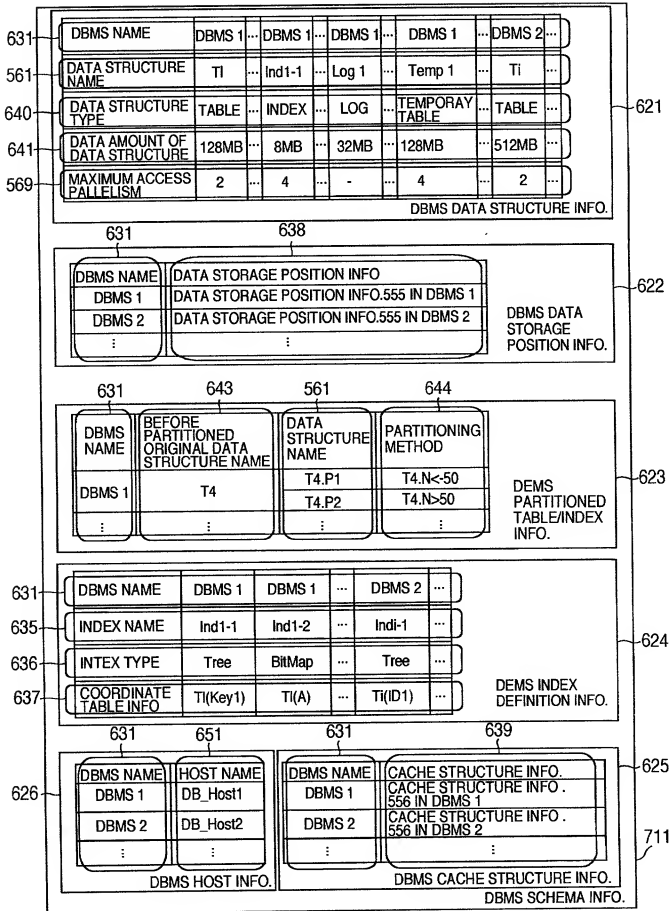


FIG.9

DBMS NAME	DBMS 1	DBMS 1	DBMS 1	...	DBMS 2	...	631
DATA STRUCTURE NAME	T1	T1	T2	...	Ti	...	561
VOLUME NAME	Vol 0	Vol 1	Vol 0	...	Vol 2	...	501
VOLUME LOGICAL BLOCK NUMBER	0-4999	5000-9999	0-239	...	0-9999	...	512
PHYSICAL STORAGE DEVICE NAME	Pdisk 0	Pdisk 0	Pdisk 0	...	Pdisk 1	...	502
PHYSICAL BLOCK NUMBER	0-4999	10240-15239	10000-10239	...	20480-30479	...	514
DATA STRUCTURE PHYSICAL STORAGE POSITION INFO.							712

FIG.10

631	701	702	703	
DBMS NAME	DATA STRUCTURE NAME A	DATA STRUCTURE NAME B	COUNT	
DBMS 1	T1	Ind 1-1	2789	
:	:	:	:	
DBMS 2	Ti	Ind I-1	829	714
:	:	:	:	
QUERY EXECUTION SIMULTANEOUS ACCESS DATA STRUCTURE COUNT INFO.				

FIG.11

631 DBMS NAME	561 DATA STRUCTURE NAME	733 CACHE EFFECT INFO
DBMS 1	T1	THERE IS
DBMS 1	Ind1-1	THERE IS
DBMS 1	T2	THERE IS NO
⋮	⋮	⋮
DBMS 2	T1	THERE IS
⋮	⋮	⋮

DBMS DATA STRUCTURE CACHE EFFECT INFO

715

FIG.12

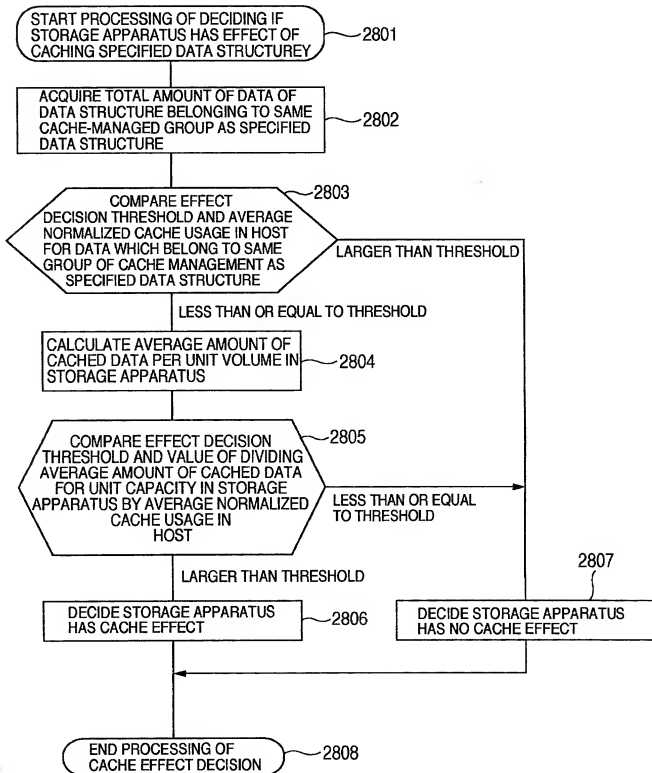


FIG.13

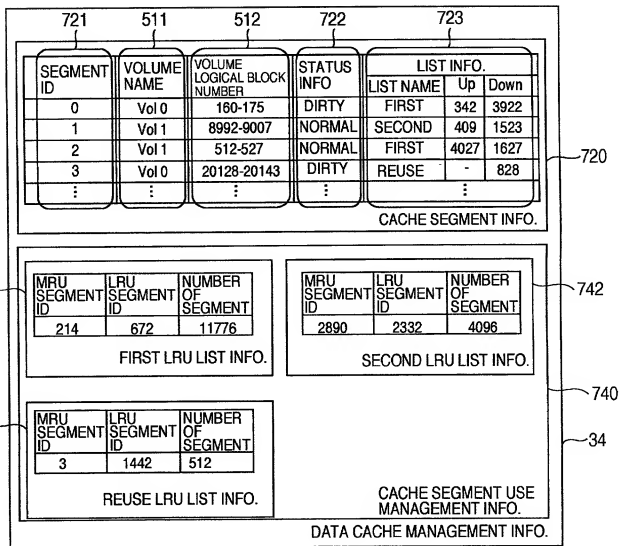


FIG.14

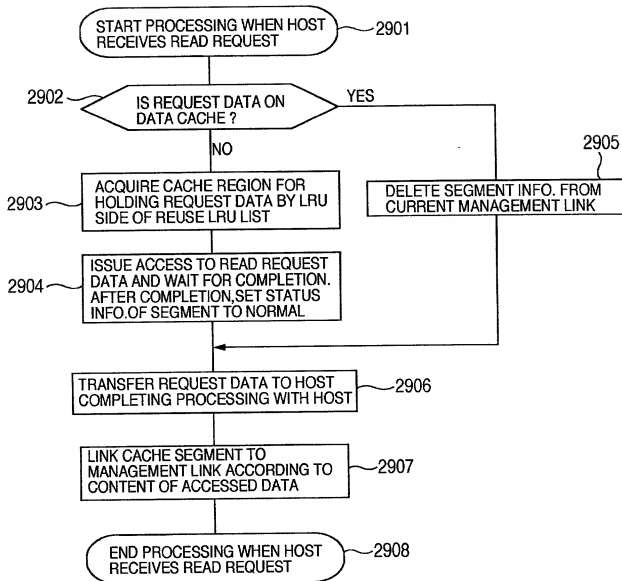


FIG.15

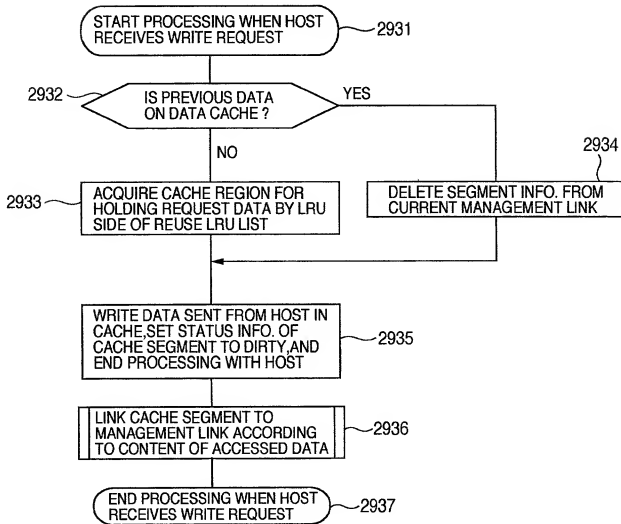
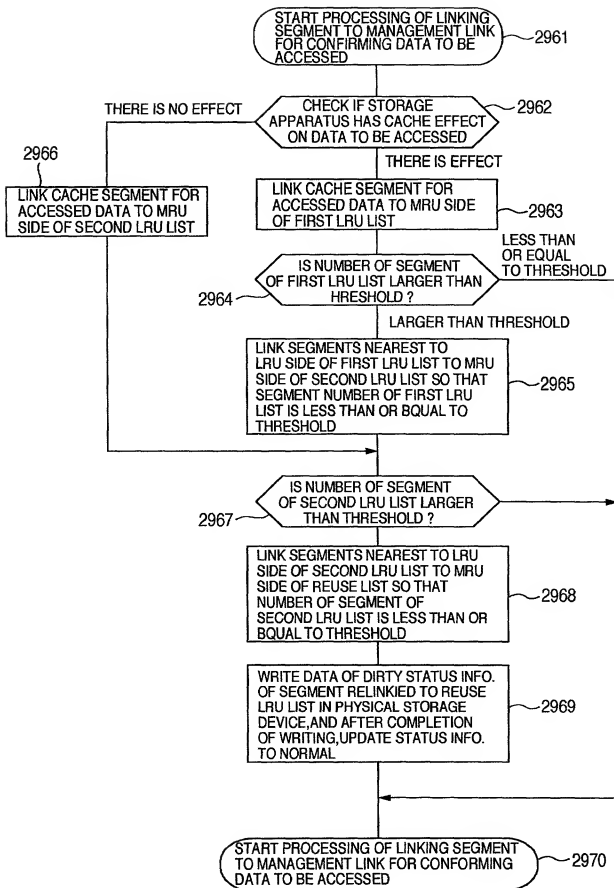


FIG.16



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FIG.17

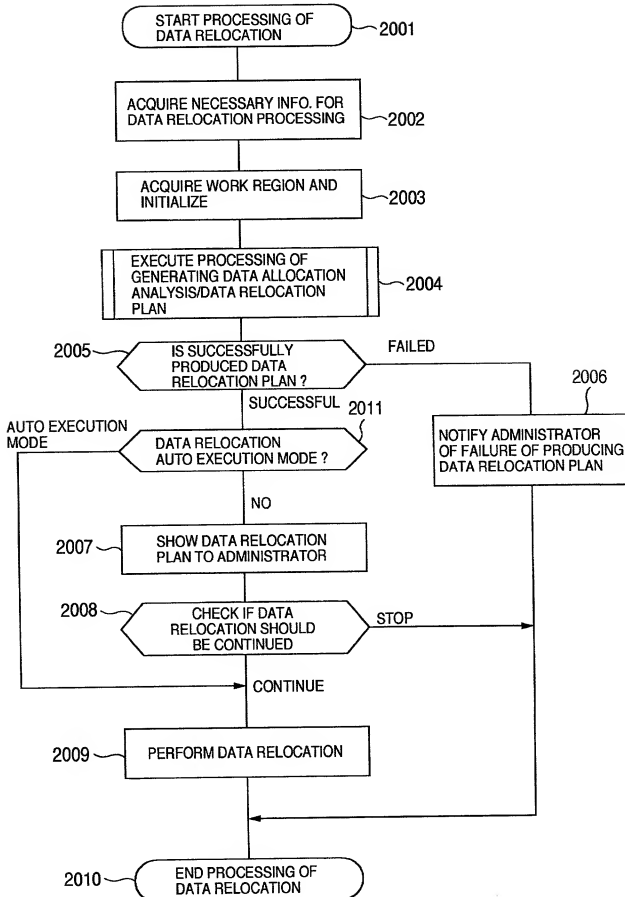
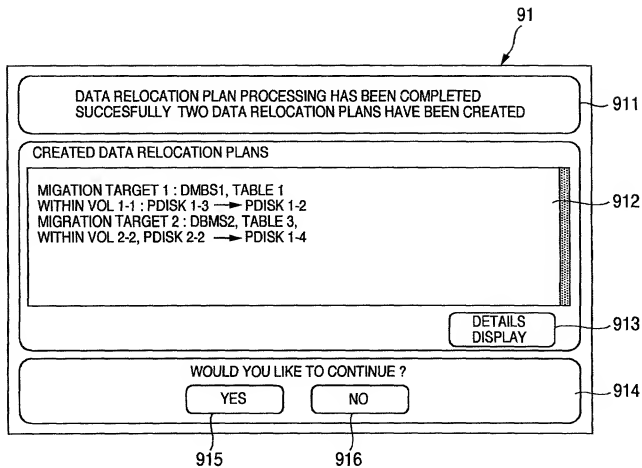


FIG.18



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FIG.19

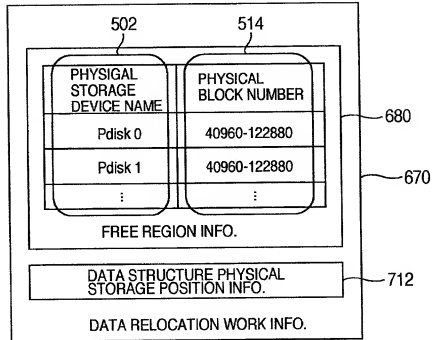


FIG.20

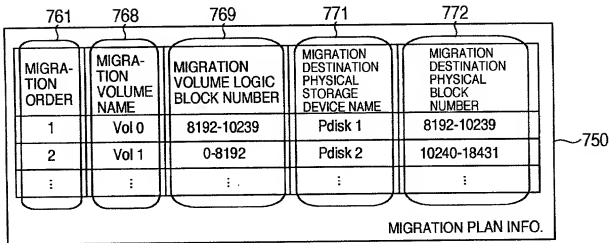


FIG.21

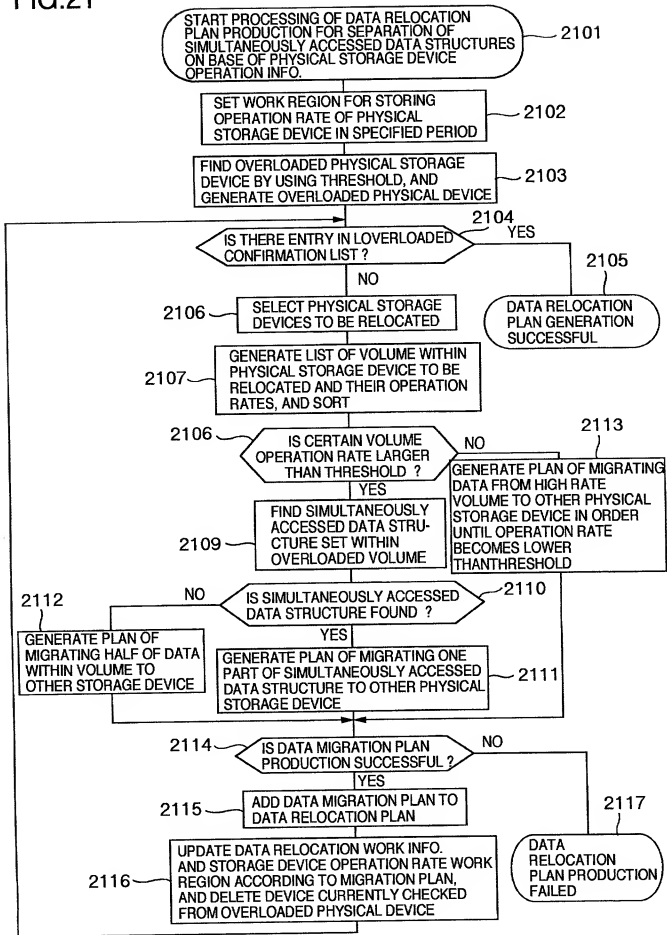


FIG.22

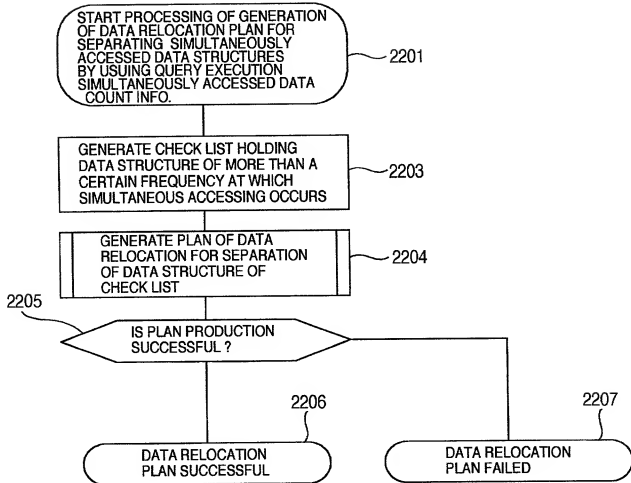


FIG.23

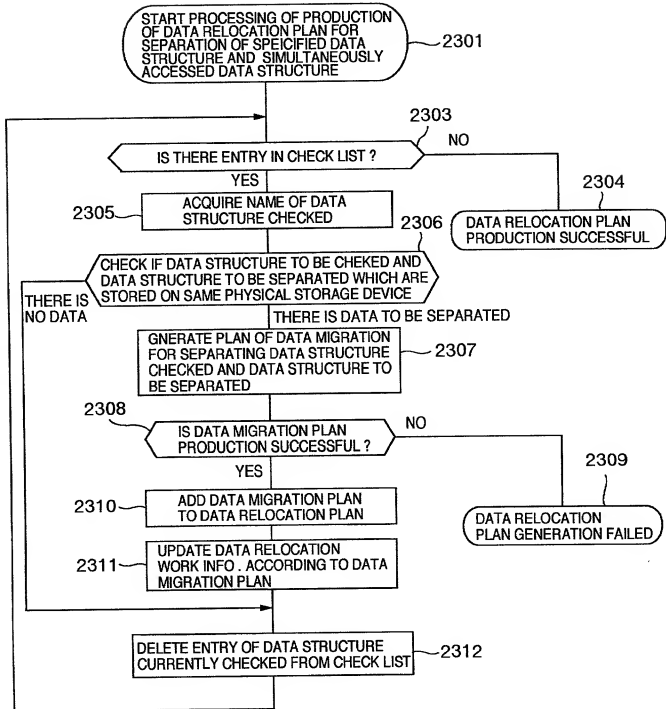


FIG.24

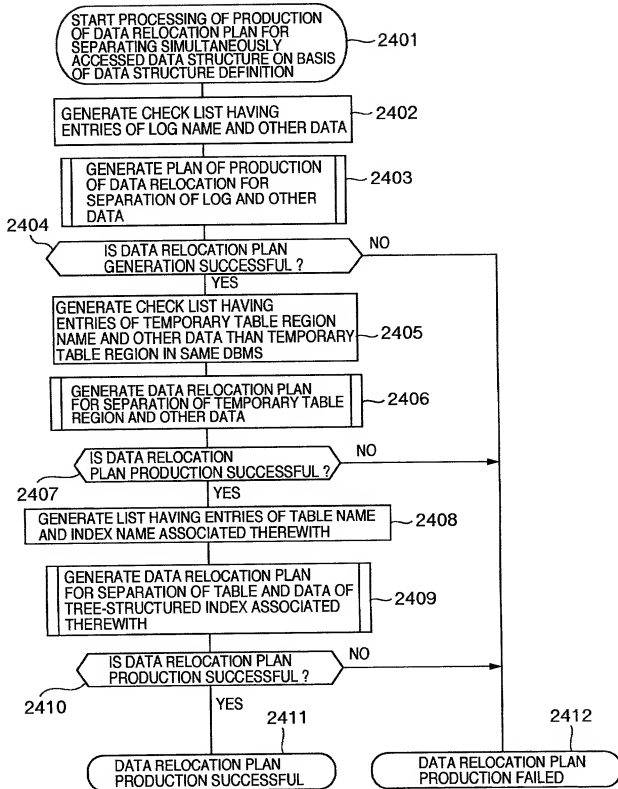


FIG.25

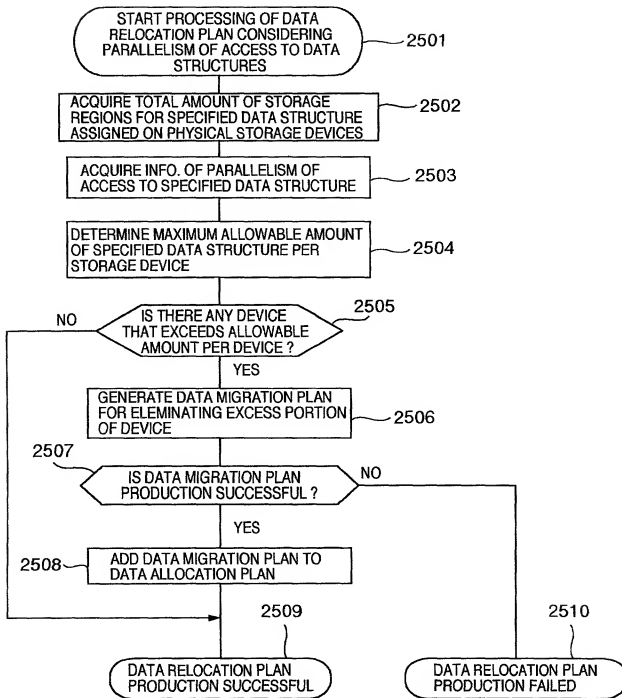


FIG.26

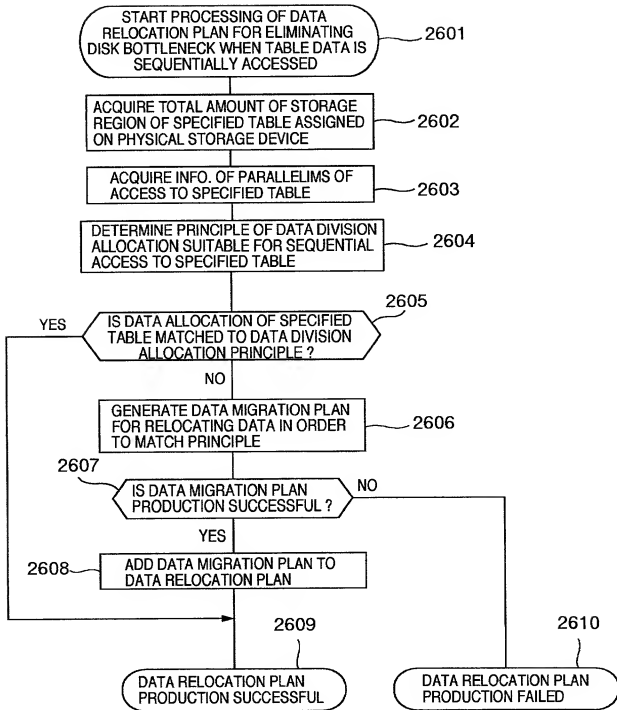
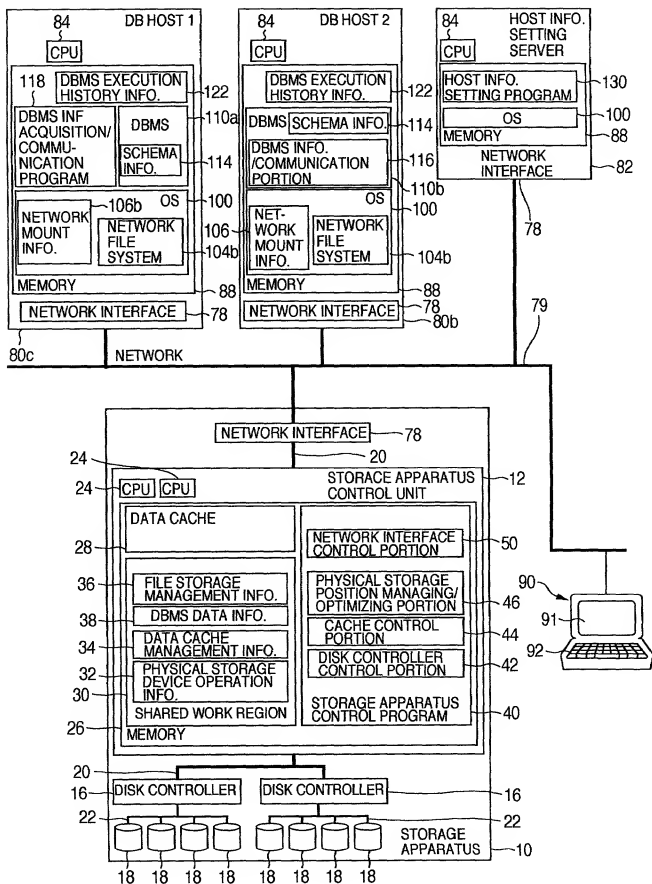


FIG.27



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FIG.28

583 STORAGE DEVICE NAME	1001 FILE SYSTEM NAME	1031 MOUNT POINT
NAS 0	FS 0	/NAS 0/FS 0
NAS 0	FS 1	/NAS 0/FS 1
NAS 0	FS 2	/NAS 0/FS 2

106b

NETWORK MOUNT INFO.

FIG.29

1001 FILE SYSTEM NAME	1002 FILE PATH NAME	1003 FILE BLOCK NUMBER	502 DEVICE NAME	514 PHYSICAL BLOCK NUMBER
FS 0	/control.dat	0-1023	Pdisk 0	4096-5119
	/wk/wk 1.dat	0-2047	Pdisk 1	1024-3071
	/wk/wk 1.dat	2048-4095	Pdisk 0	8192-10239
	Empty	-	Pdisk 0	40960-122880
FS 1	/data1.dat	0-4999	Pdisk 1	10240-15239
:	:	:	:	:

510b

1015

FILE PHYSICAL STORAGE POSITION INFO.

1001 FILE SYSTEM NAME	1002 FILE PATH NAME	1021 MIGRATION FILE BLOCK NUMBER	783 DESTI- NATION DEVICE NAME	784 DESTINATION PHYSICAL BLOCK NUMBER	785 DIFFERENCE MANAGEMENT INFO.	786 COPY POINTER
FS 1	/data 1.dat	8192-10239	Pdisk 1	38912-40959	0 1 0	9840
FS 2	/data A.dat	0-8191	Pdisk 1	30720-38911	0 0 1	1792

511b

36b

FILE DATA MIGRATION MANAGEMENT INFO.

FILE STORAGE MANAGEMENT INFO.

FIG.30

FILE SYSTEM NAME		FS 0	FS 0	FS 1	...	1001
PHYSICAL STORAGE DEVICE NAME		Pdisk 0	Pdisk 1	Pdisk 0	...	502
CUMULATIVE OPERATION TIME		23917390	38902849	8012891	...	503
PREVIOUS CUMULATIVE OPERATION TIME		22787638	38783484	7592039	...	593
OPERATION RATE	2000/4/1 12:00~ 2000/4/1 12:15	20%	12%	4%	...	594
	2000/4/1 12:15~ 2000/4/1 12:30	15%	10%	7%	...	
	2000/4/1 12:30~ 2000/4/1 12:45	16%	9%	5%	...	
	⋮	⋮	⋮	⋮	⋮	
	⋮	⋮	⋮	⋮	⋮	
PREVIOUS CUMULATIVE OPERATION TIME ACQUIRING TIME		PHYSICAL STORAGE DEVICE OPERATION INFO.				32b

595

FIG.31

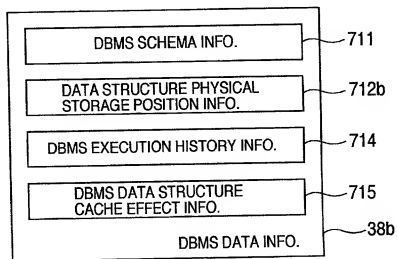


FIG.32

DBMS NAME	DBMS 1	DBMS 1	DBMS 1	...	DBMS 2	...	631
DATA STRUCTURE NAME	T1	T1	T2	...	Ti	...	561
FILE SYSTEM NAME	FS 1	FS 1	FS 1	...	FS 2	...	1001
FILE PATH NAME	/data 1.dat	/data 1.dat	/data 2.dat	...	/data i.dat	...	1002
FILE BLOCK NUMBER	0-4999	5000-9999	0-4999	...	0-9999	...	1003
PHYSICAL STORAGE DEVICE NAME	Pdisk 1	Pdisk 0	Pdisk 1	...	Pdisk 2	...	514
PHYSICAL BLOCK NUMBER	10240-15239	10240-15239	15240-20239	...	20480-30479	...	502
DATA STRUCTURE PHYSICAL STORAGE POSITION INFO.							712b

FIG.33

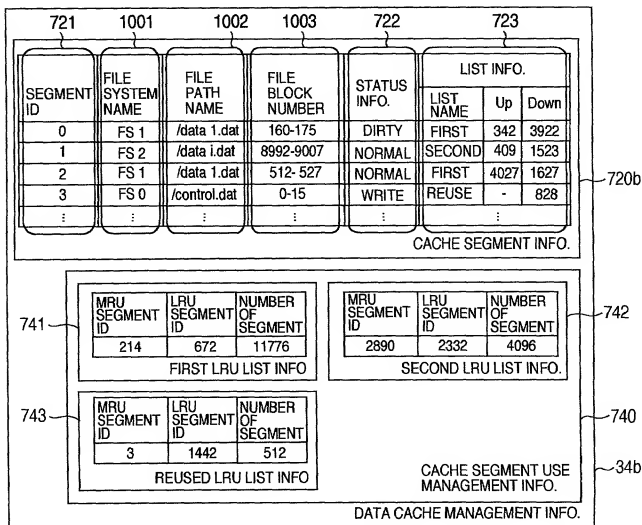


FIG.34

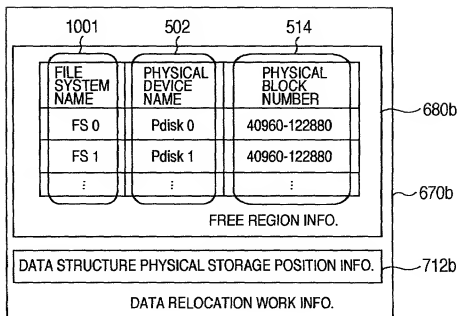


FIG.35

